

Abstract

The invention relates to a fuel combustion method in which one jet of fuel and at least two jets of oxidant are injected. According to the invention, the first jet of oxidant, known as the primary oxidant jet, is injected such as to be in contact with the jet of fuel and to produce a first incomplete combustion, the gases produced by said first combustion comprising at least one part of the fuel, and the second jet of oxidant is injected at a distance from the jet of fuel such as to combust with the part of the fuel present in the gases produced by the first combustion. Moreover, the primary oxidant jet is divided into two primary jets, namely: a first primary oxidant jet, known as the central jet, which is injected at the centre of the jet of fuel; and a second primary oxidant jet, known as the sheathing jet, which is injected coaxially around the fuel jet.